

Title (en)

A method and a device for the formation of flat articles into groups

Title (de)

Verfahren und Vorrichtung zum Bilden von Gruppen von flachen Gegenständen

Title (fr)

Procédé et dispositif pour la formation de groupes d'articles plats

Publication

EP 0947453 B1 20040707 (EN)

Application

EP 99830039 A 19990128

Priority

IT BO980212 A 19980402

Abstract (en)

[origin: EP0947453A1] Flat articles (3) to be formed into groups (2) for packaging are advanced in succession at a set tempo toward a transfer station (9) where each article is made to assume a predetermined position in space, standing on edge. Thereafter, the articles (3) are advanced in a direction (12) perpendicular to the position in space and toward a release station (11) by means of a first conveyor (10) equipped with pockets (28) that are caused to advance at a first linear velocity in such a way that each pocket (28) receives an article (3) and, at predetermined intervals, accelerated to a second velocity for a predetermined duration between the arrival of one article (3) at the transfer station (9) and the arrival of the next article (3); in this way, one or more pockets (28) remain empty, and groups (2) of articles (3) forming on the conveyor (10) are separated one from the next by the empty pockets. <IMAGE>

IPC 1-7

B65G 47/08; **B65G 33/06**

IPC 8 full level

B65G 33/06 (2006.01); **B65G 47/08** (2006.01)

CPC (source: EP US)

B65G 33/06 (2013.01 - EP US); **B65G 47/082** (2013.01 - EP US)

Cited by

CN102040091A; EP2524874A1; WO03103875A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

EP 0947453 A1 19991006; **EP 0947453 B1 20040707**; BR 9901355 A 20000613; DE 69918481 D1 20040812; DE 69918481 T2 20050818; ES 2224587 T3 20050301; IT 1299948 B1 20000404; IT BO980212 A0 19980402; IT BO980212 A1 19991002; US 2001001997 A1 20010531; US 6425476 B2 20020730

DOCDB simple family (application)

EP 99830039 A 19990128; BR 9901355 A 19990331; DE 69918481 T 19990128; ES 99830039 T 19990128; IT BO980212 A 19980402; US 23310099 A 19990119